

FIGURE 1A

Sequence of cadherin 3 (GenBank accession number NP_001784)

SEQ ID NO:1

MGLPRGPLASLLLLQVCWLQCAASEPCRAVFREA EVTLEAGGAEQEPGQALGK
VFMGCPGQEPALFSTDND DFTVRNGETVQERRSLKERNPLKIFPSKRILRRHKRD
WVVA PISVPENGKGPF PQRLNQLKSNKDRDTKIFY SITGPGADSPPEGVFAVEKE
TGWLLL NKPLDREEIAKYELFGH AVSENGASVEDPMNISIIVTDQNDHKPKFTQD
TFRGSVLEGVLP GTSVMQVTATDEDDAIYTYNGVVAYSISQEPKDPHDLMFTI
HRSTGTISVISSGLDREKVPEYTLTIQATDMDGDGSTTTAVAVVEILDANDNAPM
FDPQKYEAHVPENAVGHEVQRLTVTDLDAPNSPAWRATYLMGGDDGDHFTITT
HPESNQGILTTRKGLDFEAKNQHTLYVEVTNEAPFVLKLPTSTATIVVHVEDVNE
APV FVPPSKVVEVQEGIPTGEPVCVYTAEDPDKENQKISYRILRDPAGWLAMDPD
SGQVTAVGTL DREDEQFVRNNIYEV MV LAMDN GSPPTTGTG TLLL TLIDVNDHG
PVPEPRQITICNQSPVRHVLNITDKDLSPTSPFQAQLTDDSDIYWTAEVNEEGDT
VVL S LKKFLKQDTYDVHLSLSDHGNKEQLTVIRATVCDCHGHVETCPGPWKGG
FILPVLGAVLALLFLLL VLLLVRKKRKIKEPLLLPEDDTRDNV FYYGEEGGGEE
DQDYDITQLHRGLEARPEVVL RNDVAPT IPTPMYRPRPANPDEIGNFIIENLKAA
NTDPTAPPYDTLLVFDYEGSGSDAASLSSLTSSASDQDQDYDYLNEWGSRFKKL
ADMYGGGEDD

FIGURE 1B

Sequence of matrix metalloproteinase 14 (GenBank accession number NP_004986)

SEQ ID NO:2

MSPAPRPPRCLLLPLLTLGTALASLGS AQSSSFSP EAWLQQYGYLPPGDLRHTHTQ
RSPQSLSA AIAAMQKFYGLQVTGKADADTMKAMRRPRCGVPDKFGAEIKANVR
RKRYAIQGLKWQHNEITFCIQNYTPKVGEYATYEAIRKA FRVWESATPLRFREVP
YAYIREGHEKQADIMIFFAEGFHGDSTPFDGEGGFLAHAYFPGPNIGGDTHFDSA
EPWTVRNEDLNGNDIFLVAVHELGHALGLEHSSDPSAIMAPFYQWMDTENFVLP
DDDRRG IQQLYGGESGFPTKMPPQPR TTSRPSVPDKPKNPTYGPNICDGNFDTVA
MLRGEMFVFKERWFWVRNNQVMDGYPMPIGQFWRGLPASINTAYERKD GKF
VFFKGDKHWVFDEASLEPGYPKHIKELGRGLPTDKIDAALFWMPNGKTYFFRGN
KYYRFNEELRAVDSEYPKNIKVWEGIPESPRGSFMGSDEVFTYFYKGNKYWKFN
NQKLKVEPGYPKSALRDWMGCPSGGRPDEGTEEETEVIIEVDEEGGGA VSAAA
VVL P VLLLLLVLA VGLAVFFFRRHGTPRRLLYCQRSLLDKV

FIGURE 1C

(1)

Sequence of cadherin EGF LAG seven-pass G-type receptor 2 (GenBank accession number NP_001399)

SEQ ID NO:3

MRSPATGVPLPTPPPLLLLLLLLLPPPLLGDQVGPCRSLGSRGRGSSGACAPMG
WLCPSASNLWLYTSRCRDAGTELTGHLVPHHDGLRVWCPSEAHIPPAPEG
CPWSCRLLGIGGHLSPQGKLTLP EEHPCLKAPRLRCQSKLAQAPGLRAGERSPE
ESLGGRKRNVNTAPQFQPPSYQATVPENQPAGTPVASLRAIDPDEGEAGRLEYT
MDALFDSRSNQFFSLDPVTGAVTTAEELDRETKSTHVFRVTAQDHGMPRRSALA
TLTILVTDNDHDPVFEQQEYKESLRENLEVGYEVLTVRATDGDAPPNANILYRL
LEGSGGSPSEVFEIDPRSGVIRTRGPVDREEVESYQLTVEASDQGRDPGPRSTTAA
VFLSVEDDNDNAPQFSEKRYVVQVREDVTPGAPVLRVTASDRDKGSNAV VHYSI
MSGNARGQFYLDAQTGALDVVSPLDYETTKEYTLRVRAQDGRPPLSNVSGLV
TVQVLDINDNAPIFVSTPFQATVLESVPLGYLVLVHVQAIDADAGDNARLEYRLAG
VGHDFPFTINNGTGWISVAAELDREEVDFYSFGVEARDHGTPALTASASVSVTVL
DVNDNNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITYQITSGNTRNR
FSITSQSGGGLVSLALPLDYKLERQYVLA V TASDGTRQDTAQIVNVVTDANTHRP
VFQSSHYTVNVNEDRPAGTTVVLISATDEDTGENARITYFMEDSIPQFRIDADTG
AVTTQAE LDYEDQVSYTLAITARDNGIPQKSDTTYLEILVNDVNDNAPQFLRDSY
QGSVYEDVPPFTSVLQISATDRDSGLNGRVFYTFQGGDDGDGDFIVESTSGIVRT
LRRLDRENV AQYVLRAYAVDKGMPPARTPMEVTVTVLDVNDNPPVFEQDEFDV
FVEENSPIGLAVARVTATDPDEGTNAQIMYQIVEGNIPEVFQLDIFSGELTALVDL
DYEDRPEYVLVIQATSAPLVSRATVHVRLDRNDNPPVLGNFEILFN NYVTNRSS
SFPGGAIGRVP AHDPDISDSLTSFERGNELSLVLLNASTGELKLSRALDNNRPLE
AIMSVLVSDGVHSVTAQCALRVTIITDEMLTHSITLRLEDMSPERFLSPLLGLFIQA
VAATLATPPDHVVVFNVQRD TDAPGGHILNVSLSVGQPPGPGGGPPFLPSEDLQE
RLYLNRSLLT AISAQRVLPFDDNICLREPCENYMRCVSVLRFDSSAPFIASSSVLFR
PIHPVGGLRRCRCP PGFTGDYCETEVDLCYSRPCGPHGRCRSREGGYTCLCRDGYT
GEHCEVSARSGRCTPGVCKNGGTCVNLLVGGFKCDCPSGDFEKP YCQVTTRSFP
AHSFITFRGLRQRFHFTLALS FATKERDGLLLYNGRFNEKHDFVALEVIQEQVQL
TFSAGESTTTVSPFVPGGVSDGQWHTVQLKYYNKPLL GQTGLPQGPSEQKVAVV
TVDGC DTGVALRFGSVLGNYSCAAQGTQGGSKKSLDLTGPLLLGGVPDLPESFP
VRMRQFVGCMRNLQVDSRHIDMADFIANNGTVP GCPAKKNVCDSNTCHNGGT
CVNQWDAFSC ECPLGFGGKSCAQEMANPQHFLGSSLVAWHGLSLPISQPWYLSL
MFRTRQADGVLLQAITRGRSTITLQLREGHVMLSVEGTGLQASSLRLEPGRAND
GDWHHAQLALGASGGPGHAILSFDY GQQRAEAGNLGPRLHGLHLSNITVGGIPGP
AGGVARGFRGCLQGVRVSDTPEGVNSLDP SHGESINVEQGCSLPDPCDSNPCPA
NSYCSNDWDSYSCSDPGYYGDNCTNVCDLNPCEHQSVCTRKPSAPHGYTCEC
PPNYLG PYCETRIDQPCPRGWWGHPTCGPCNCDVSKGFDPCNKTSGECHCKEN
HYRPPGSPTCLLCDCYPTGSLSRVCDPEDGQCCKPGVIGRQC DRCDNPFAEVT
NGCEVNYDSCPRAIEAGIWWPRTRFGLPAAAPCPKGSFGTAVRHCDEHRGWLPP
NLFNCT SITFSELKGFAERLQRNESGLDSGRSQQ LALLRNATQHTAGYFGSDVK
VAYQLATRLLAHESTQRGFGLSATQDVHFTENLLRVGSALLDTANKRHWELIQQ

Figure 1C: cadherin

TEGGTAWLLQHYEAYASALAQNMRYHTYLSPTIVTPNIVISVVRLDKGNFAGAK
LPRYEALRGEQPPDLETTVILPESVFRETTPPVVRPAGPGEAQEPEELARRQRRHPE
LSQGEAVASVIIYRTLALGLPHNYDPDKRSLRVPKRPIINTPVVSISVHDDEELLPR
ALDKPVTVQFRLLTEERTKPICVFWNHSILVSGTGGWSARGCEVVFRNESHVSC
QCNHMTSFAVLMDVSRRENGEILPLKTLTYVALGVTLAALLLTFFFLTLRLRS
NQHGIRRNLTAAALGLAQLVFLGINQADLPFACTVIAILLHFLYLCTFSWALLEAL
HLYRALTEVRDVNTGPMRFYYMLGWGVPAFITGLAVGLDPEGYGNDPFCWLSI
YDTLIWSFAGPVAFVSMVFLYILAAARASCAAQRQGFEEKKGPVSGLQPSFAVLL
LLSATWLLALLSVNSDTLLFHLYLFATCNCIQGPFIFLSYVVLSKEVRKALKLACSR
KPSDPALTTKSTLTSSYNCPSPYADGRLYQPYGDSAGSLHSTSRSGKSQPSYIPF
LLREESALNPGQGPPGLGDPGSLFLEGQDQQHDPDTSDDSDLSLEDDQSGSYAST
HSSDSEEEEEEEEEAAFPGEQGWDSLLGPGAERLPLHSTPKDGGPGPGKAPWPG
DFGTTAKESSGNGAPEERLRENGDALSGSLGPLPGSSAQPHKGILKKKCLPTIS
EKSSLLRLPLEQCTGSSRGSSASEGSRGGPPPRPPPRQSLQEQLNGVMPIAMSIKA
GTVDEDSSGSEFLFFNFLH

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Figure 1D

Peptides for antibodies that bind to cadherin3 (GenBank accession number NP_001784):

RAVFREA EVTLEAGGAEQE (SEQ ID NO:4)

QEPALFSTDNDDFTVRN (SEQ ID NO:5)

QKYEAHVPENAVGHE (SEQ ID NO:6)

Peptides for antibodies that bind to matrix metalloproteinase 14 (GenBank accession number NP_004986):

AYIREGHEKQADIMIFFAE (SEQ ID NO:7)

DEASLEPGYPKHIKELGR (SEQ ID NO:8)

RGSFMGSDEVFTYFYK (SEQ ID NO:9)

Peptides for antibodies that bind to anti-cadherin EGF LAG seven-pass G-type receptor 2 (GenBank accession number NP_001399):

QASSLRLEPGRANDGDWH (SEQ ID NO:10)

ELKGFAERLQRNESGLDSGR (SEQ ID NO:11)

RSGKSQPSYIPFLLREE (SEQ ID NO:12)

Peptides for antibodies that bind to anti-cytokeratin17:

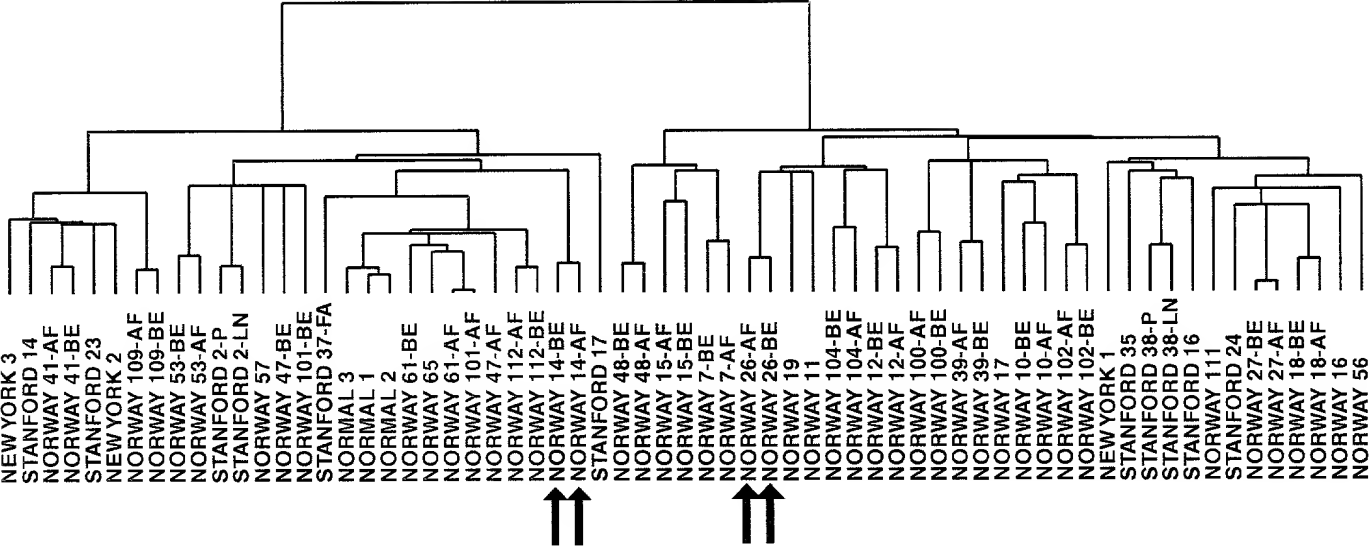
KKEPVTTRQVRTIVEE (SEQ ID NO:13)

QDGKVISSREQVHQTTR (SEQ ID NO:14)

SSSIKGSSGLGGGSS (SEQ ID NO:15)

FIGURE 2

Intrinsic Gene Subset



Epithelial-Enriched Gene Subset

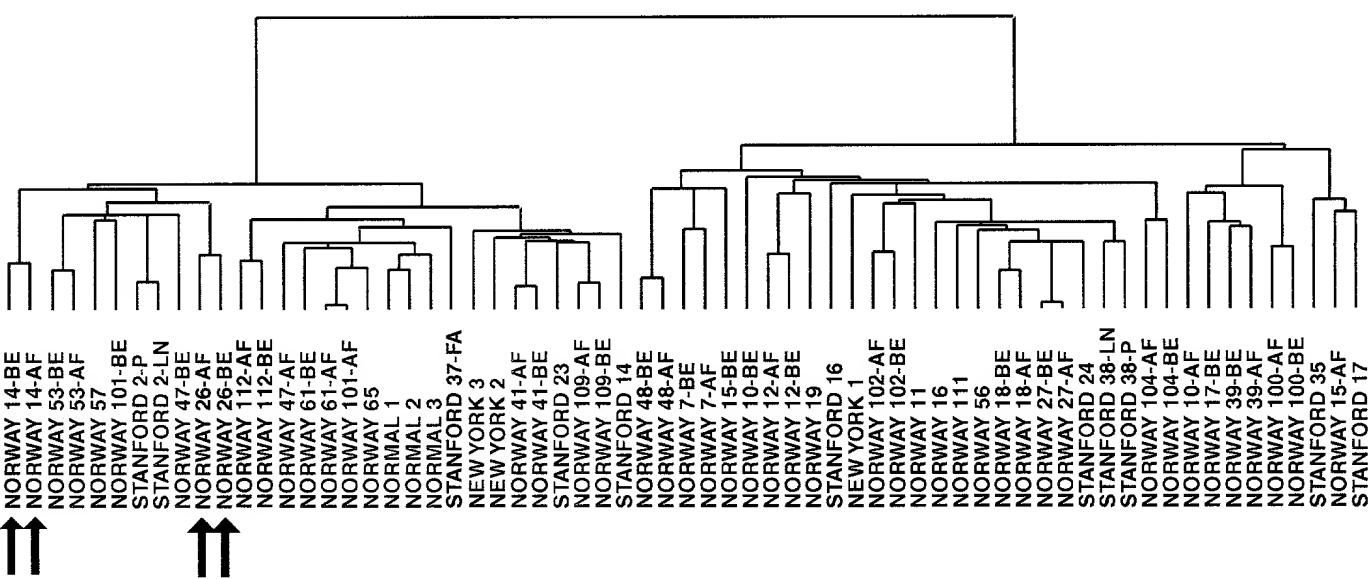
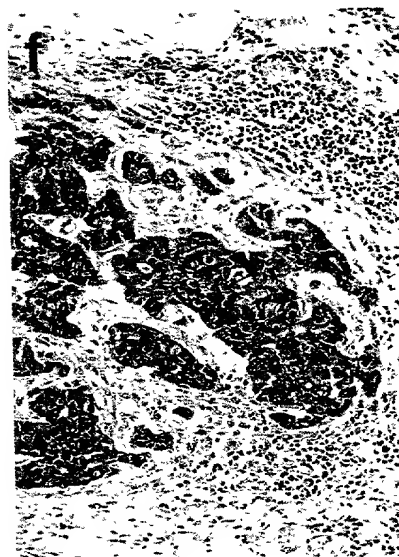
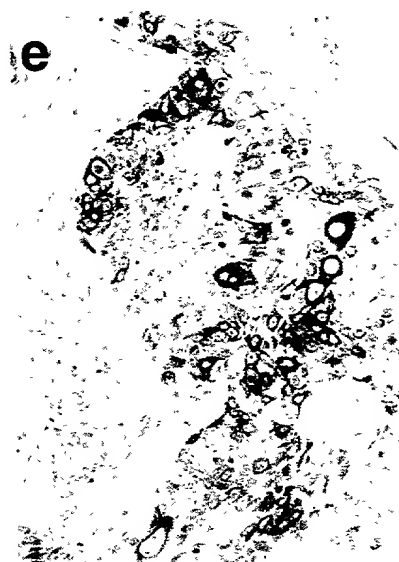
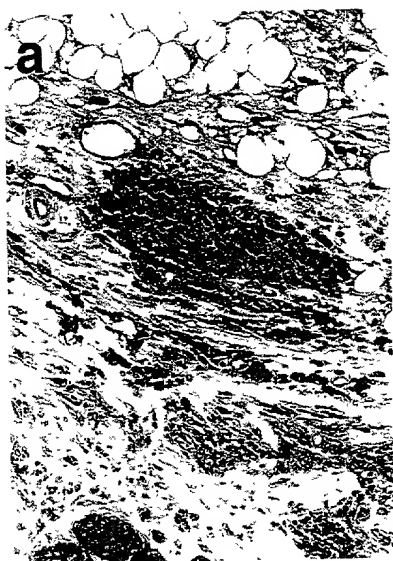


Figure 3



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10000 6400 3200 1600 800 400 200 100 50 25 12.5 6.25 3.125 1.5625 0.78125 0.390625 0.1953125 0.09765625 0.048828125 0.0244140625 0.01220703125 0.006103515625 0.0030517578125 0.00152587890625 0.000762939453125 0.0003814697265625 0.00019073486328125 9.5367431640625e-05 4.76837158203125e-05 2.384185791015625e-05 1.1920928955078125e-05 5.9604644775390625e-06 2.980232238769531e-06 1.490116119384766e-06 7.450580596923828e-07 3.725290298461914e-07 1.862645149230957e-07 9.313225746154784e-08 4.656612873077392e-08 2.328306436538696e-08 1.164153218269348e-08 5.82076609134674e-09 2.91038304567337e-09 1.455191522836685e-09 7.275957614183425e-10 3.637978807091712e-10 1.818989403545856e-10 9.09494701772928e-11 4.54747350886464e-11 2.27373675443232e-11 1.13686837721616e-11 5.6843418860808e-12 2.8421709430404e-12 1.4210854715202e-12 7.105427357601e-13 3.5527136788005e-13 1.77635683940025e-13 8.88178419700125e-14 4.440892098500625e-14 2.220446049250312e-14 1.110223024625156e-14 5.55111512312578e-15 2.77555756156289e-15 1.387778780781445e-15 6.93889390390722e-16 3.46944695195361e-16 1.734723475976805e-16 8.673617379884025e-17 4.336808689942012e-17 2.168404344971006e-17 1.084202172485503e-17 5.421010862427515e-18 2.710505431213757e-18 1.355252715606879e-18 6.776263578034395e-19 3.388131789017197e-19 1.694065894508598e-19 8.47032947254299e-20 4.235164736271495e-20 2.117582368135747e-20 1.058791184067874e-20 5.29395592033937e-21 2.646977960169685e-21 1.323488980084842e-21 6.61744490042421e-22 3.308722450212105e-22 1.654361225106052e-22 8.27180612553026e-23 4.13590306276513e-23 2.067951531382565e-23 1.033975765691282e-23 5.16987882845641e-24 2.584939414228205e-24 1.292469707114102e-24 6.46234853557051e-25 3.231174267785255e-25 1.615587133892627e-25 8.077935669463135e-26 4.038967834731567e-26 2.019483917365783e-26 1.009741958682891e-26 5.048709793414455e-27 2.524354896707227e-27 1.262177448353614e-27 6.31088724176807e-28 3.155443620884035e-28 1.577721810442017e-28 7.888609052210085e-29 3.944304526105042e-29 1.972152263052521e-29 9.860761315262605e-30 4.930380657631302e-30 2.465190328815651e-30 1.232595164407825e-30 6.162975822039125e-31 3.081487911019562e-31 1.540743955509781e-31 7.703719777548905e-32 3.851859888774452e-32 1.925929944387226e-32 9.62964972193613e-33 4.814824860968065e-33 2.407412430484032e-33 1.203706215242016e-33 6.01853107621008e-34 3.00926553810504e-34 1.50463276905252e-34 7.5231638452626e-35 3.7615819226313e-35 1.88079096131565e-35 9.40395480657825e-36 4.701977403289125e-36 2.350988701644562e-36 1.175494350822281e-36 5.877471754111405e-37 2.938735877055702e-37 1.469367938527851e-37 7.346839692639255e-38 3.673419846319627e-38 1.836709923159813e-38 9.183549615799065e-39 4.591774807899532e-39 2.295887403949766e-39 1.147943701974883e-39 5.739718509874415e-40 2.869859254937207e-40 1.434929627468603e-40 7.174648137343015e-41 3.587324068671507e-41 1.793662034335753e-41 8.968310171678765e-42 4.484155085839382e-42 2.242077542919691e-42 1.121038771459845e-42 5.605193857299225e-43 2.802596928649612e-43 1.401298464324806e-43 7.00649232162403e-44 3.503246160812015e-44 1.751623080406007e-44 8.758115402030035e-45 4.379057701015017e-45 2.189528850507508e-45 1.094764425253754e-45 5.47382212626877e-46 2.736911063134385e-46 1.368455531567192e-46 6.84227765783596e-47 3.42113882891798e-47 1.71056941445899e-47 8.55284707229495e-48 4.276423536147475e-48 2.138211768073737e-48 1.069105884036868e-48 5.34552942018434e-49 2.67276471009217e-49 1.336382355046085e-49 6.681911775230425e-50 3.340955887615212e-50 1.670477943807606e-50 8.35238971903803e-51 4.176194859519015e-51 2.088097429759507e-51 1.044048714879753e-51 5.220243574398765e-52 2.610121787199382e-52 1.305060893599691e-52 6.525304467998455e-53 3.262652233999227e-53 1.631326116999613e-53 8.156630584998065e-54 4.078315292499032e-54 2.039157646249516e-54 1.019578823124758e-54 5.09789411562379e-55 2.548947057811895e-55 1.274473528905947e-55 6.372367644529735e-56 3.186183822264867e-56 1.593091911132433e-56 7.965459555662165e-57 3.982729777831082e-57 1.991364888915541e-57 9.956824444577705e-58 4.978412222288852e-58 2.489206111144426e-58 1.244603055572213e-58 6.223015277861065e-59 3.111507638930532e-59 1.555753819465266e-59 7.77876909732633e-60 3.889384548663165e-60 1.944692274331582e-60 9.72346137165791e-61 4.861730685828955e-61 2.430865342914477e-61 1.215432671457238e-61 6.07716335728619e-62 3.038581678643095e-62 1.519290839321547e-62 7.596454196607735e-63 3.798227098303867e-63 1.899113549151933e-63 9.495567745759665e-64 4.747783872879832e-64 2.373891936439916e-64 1.186945968219958e-64 5.93472984109979e-65 2.967364920549895e-65 1.483682460274947e-65 7.418412301374735e-66 3.709206150687367e-66 1.854603075343683e-66 9.273015376718415e-67 4.636507688359207e-67 2.318253844179603e-67 1.159126922089801e-67 5.795634610449005e-68 2.897817305224502e-68 1.448908652612251e-68 7.244543263061255e-69 3.622271631530627e-69 1.811135815765313e-69 9.055679078826565e-70 4.527839539413282e-70 2.263919769706641e-70 1.13195988485332e-70 5.6597994242666e-71 2.8298997121333e-71 1.41494985606665e-71 7.07474928033325e-72 3.537374640166625e-72 1.768687320083312e-72 8.84343660041656e-73 4.42171830020828e-73 2.21085915010414e-73 1.10542957505207e-73 5.52714787526035e-74 2.763573937630175e-74 1.381786968815087e-74 6.908934844075435e-75 3.454467422037717e-75 1.727233711018858e-75 8.63616855509429e-76 4.318084277547145e-76 2.159042138773572e-76 1.079521069386786e-76 5.39760534693393e-77 2.698802673466965e-77 1.349401336733482e-77 6.74700668366741e-78 3.373503341833705e-78 1.686751670916852e-78 8.43375835458426e-79 4.21687917729213e-79 2.108439588646065e-79 1.054219794323032e-79 5.27109897161516e-80 2.63554948580758e-80 1.31777474290379e-80 6.58887371451895e-81 3.294436857259475e-81 1.647218428629737e-81 8.236092143148685e-82 4.118046071574342e-82 2.059023035787171e-82 1.029511517893585e-82 5.147557589467925e-83 2.573778794733962e-83 1.286889397366981e-83 6.434446986834905e-84 3.217223493417452e-84 1.608611746708726e-84 8.04305873354363e-85 4.021529366771815e-85 2.010764683385907e-85 1.005382341692953e-85 5.026911708464765e-86 2.513455854232382e-86 1.256727927116191e-86 6.283639635580955e-87 3.141819817790477e-87 1.570909908895238e-87 7.85454954447619e-88 3.927274772238095e-88 1.963637386119047e-88 9.818186930595235e-89 4.909093465297617e-89 2.454546732648808e-89 1.227273366324404e-89 6.13636683162202e-90 3.06818341581101e-90 1.534091707905505e-90 7.670458539527525e-91 3.835229269763762e-91 1.917614634881881e-91 9.588073174409405e-92 4.794036587204702e-92 2.397018293602351e-92 1.198509146801175e-92 5.992545734005875e-93 2.996272867002937e-93 1.498136433501468e-93 7.49068216750734e-94 3.74534108375367e-94 1.872670541876835e-94 9.363352709384175e-95 4.681676354692087e-95 2.340838177346043e-95 1.170419088673021e-95 5.852095443365105e-96 2.926047721682552e-96 1.463023860841276e-96 7.31511930420638e-97 3.65755965210319e-97 1.828779826051595e-97 9.143899130257975e-98 4.571949565128987e-98 2.285974782564493e-98 1.142987391282246e-98 5.71493695641123e-99 2.857468478205615e-99 1.428734239102807e-99 7.143671195514035e-100 3.571835597757017e-100 1.785917798878508e-100 8.92958899439254e-101 4.46479449719627e-101 2.232397248598135e-101 1.116198624299067e-101 5.580993121495335e-102 2.790496560747667e-102 1.395248280373833e-102 6.976241401869165e-103 3.488120700934582e-103 1.744060350467291e-103 8.720301752336455e-104 4.360150876168227e-104 2.180075438084113e-104 1.090037719042056e-104 5.45018859521028e-105 2.72509429760514e-105 1.36254714880257e-105 6.81273574401285e-106 3.406367872006425e-106 1.703183936003212e-106 8.51591968001606e-107 4.25795984000803e-107 2.128979920004015e-107 1.064489960002007e-107 5.322449800010035e-108 2.661224900005017e-108 1.330612450002508e-108 6.65306225001254e-109 3.32653112500627e-109 1.663265562503135e-109 8.316327812515675e-110 4.158163906257837e-110 2.079081953128918e-110 1.039540976564459e-110 5.197704882822295e-111 2.598852441411147e-111 1.299426220705573e-111 6.497131103527865e-112 3.248565551761932e-112 1.624282775880966e-112 8.12141387940483e-113 4.060706939702415e-113 2.030353469851207e-113 1.015176734925603e-113 5.075883674628015e-114 2.537941837314007e-114 1.268970918657003e-114 6.344854593285015e-115 3.172427296642507e-115 1.586213648321253e-115 7.931068241606265e-116 3.965534120803132e-116 1.982767060401566e-116 9.91383530200783e-117 4.956917651003915e-117 2.478458825501957e-117 1.239229412750978e-117 6.19614706375489e-118 3.098073531877445e-118 1.549036765938722e-118 7.74518382969361e-119 3.872591914846805e-119 1.936295957423402e-119 9.68147978711701e-120 4.840739893558505e-120 2.420369946779252e-120 1.210184973389626e-120 6.05092486694813e-121 3.025462433474065e-121 1.512731216737032e-121 7.56365608368516e-122 3.78182804184258e-122 1.89091402092129e-122 9.45457010460645e-123 4.727285052303225e-123 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S0144

1:200

1:500

1:1000

FIGURE 4B

S0137

1:200

1:500

1:1000

FIGURE 4C

Figure 5A

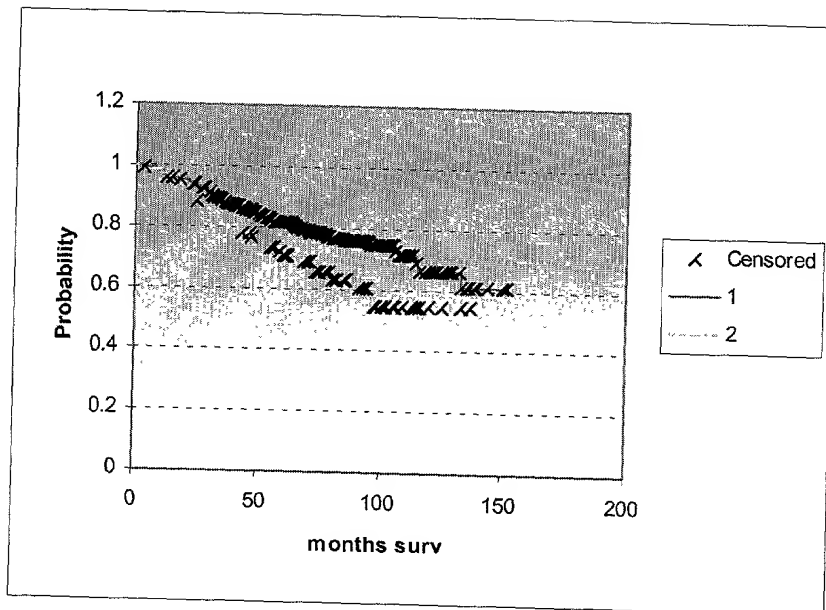
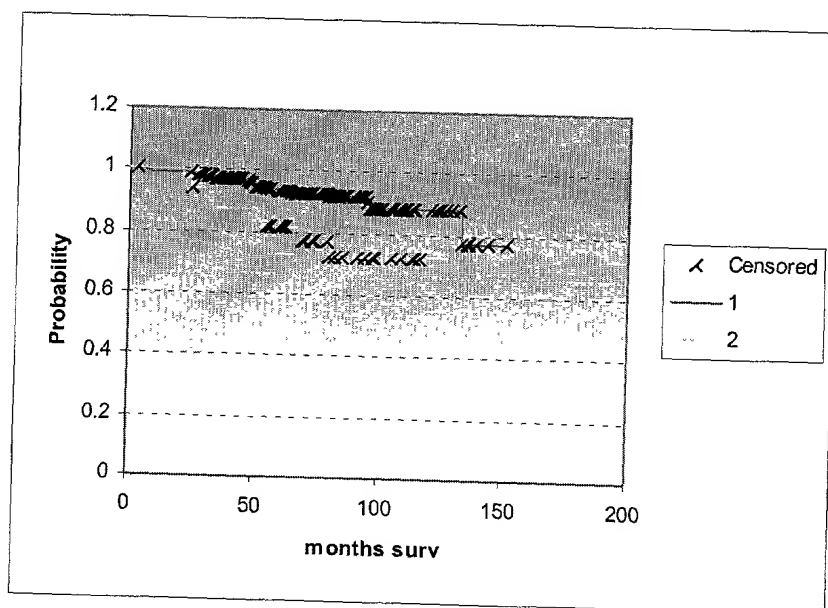
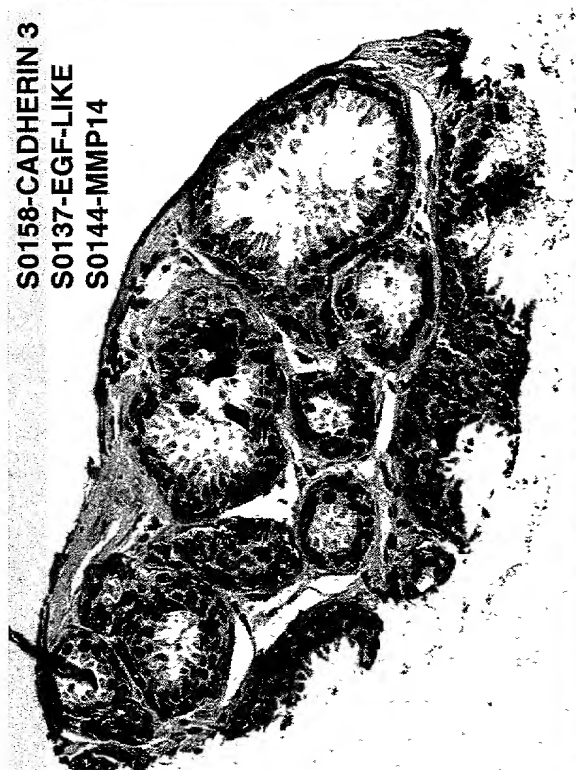


Figure 5B

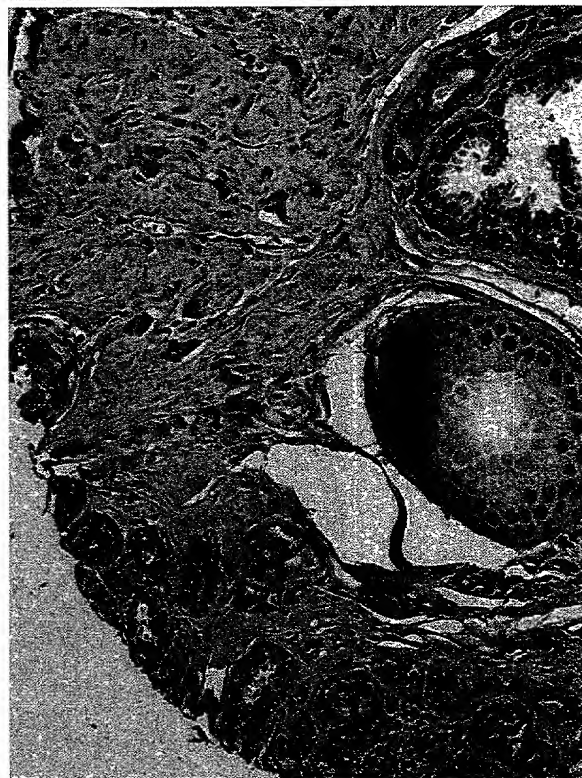


A. ck5/6



S0158-CADHERIN 3
S0137-EGF-LIKE
S0144-MMP14

B. s0158



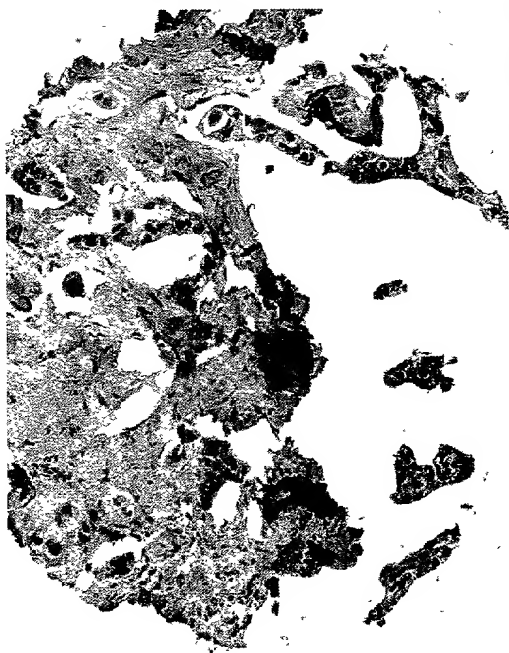
C. s0137



D. s0144

FIGURE 6

A. CK5/6



B. S0137



C. S0158

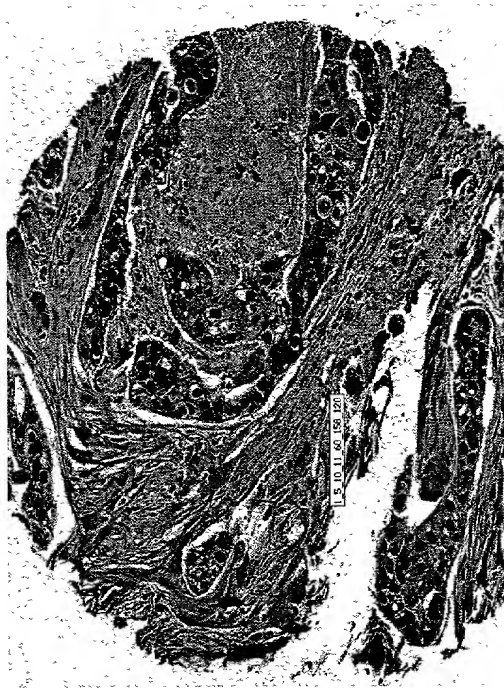


FIGURE 7